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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-07-33** **Date: 07-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.2	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.6%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

AE 7.9.09

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-07-33** **Date: 03-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.4N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.2N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.4N/mm^2	Not less than 53 N/mm^2

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-07-33** **Date: 07-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	354	354	2.4	97.6	90-100
3	20 mm	7149	7503	50.0	50.0	30-70
4	10 mm	4526	12029	80.2	19.8	10-35
5	4.75 mm	2388	14417	96.1	3.9	0-5
6	Pan	583	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-07-33** **Date: 07-09-18**

Sample ID No : 2018-12-07-33 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.46	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.16	_

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-07-33** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-07-33** **Date: 06-09-18**

Sample ID No : 2018-12-07-33 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.46	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-07-33** **Date: 06-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-18

Sample ID No : 2018-12-07-33 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-07-33** **Date: 06-09-18**

Sample ID No : 2018-12-07-33 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.08	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2018-12-07-33** **Date: 06-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name :

Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-18

Sample ID No : 2018-12-07-33 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 05-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-07-33** **Date: 15-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-18

Sample ID No : 2018-12-07-33 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.58	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-12-07-33** **Date: 09-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.51	250.48	1.116	17788	80.9	4.5	4.2	5.3
2	Cover Slab-2	150.49	250.52	1.122	17784	82.3	4.6	4.3	5.4
3	Cover Slab-3	150.50	250.51	1.118	17786	81.5	4.6	4.3	5.3

Note:

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Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-12-07-33** **Date: 10-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /04
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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Quality Manager

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****End of Report****

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2018-12-07-33** **Date: 20-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-18

Sample ID No : 2018-12-07-33/01

Type of Mix : GSB (Granular Sub Base)

Date of test : 18-10-18

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	896	9790	97.90	2.10	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.34%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-12-07-33** **Date: 24-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura,3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-18

Sample ID No : 2018-12-07-33/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 22-10-18

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	400	400	3.6	96.4	95-100
22.4	2000	2400	21.8	78.2	60-80
11.2	2700	5100	46.4	53.6	40-60
4.75	1700	6800	61.8	38.2	25-40
2.36	1200	8000	72.7	27.3	15-30
0.6	100	8100	73.6	26.4	8-22
0.075	1500	9600	87.3	12.7	0-5

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2018-12-07-32** **Date: 27-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-12-07-32/01

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 25-10-18

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	50	50	1.0	99.0	90-100
9.5	950	1000	20.0	80.0	70-88
4.75	1100	2100	42.0	58.0	53-71
2.36	650	2750	55.0	45.0	42-58
1.18	450	3200	64.0	36.0	34-48
0.6	200	3400	68.0	32.0	26-38
0.3	500	3900	78.0	22.0	18-28
0.15	100	4000	80.0	20.0	12-20
0.075	650	4650	93.0	7.0	4-10
PAN	350	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 29-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-12-07-32/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	25-10-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 29-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-12-07-32/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	25-10-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2018-12-07-32** **Date: 29-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 25-10-18

Sample ID No : 2018-12-07-32/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 25-10-18

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-12-07-32** **Date: 08-11-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 05-11-18

Sample ID No : 2018-12-07-32/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 06-11-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	476	478
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.80	4.59
4	Average percentage	%	4.7	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2018-12-07-32** **Date: 08-11-18**

Sample ID : **2018-12-07-32/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.4	62.6	53-71
2.36	88	266	55.9	44.1	42-58
1.18	29	295	62.0	38.0	34-48
0.6	11	306	64.3	35.7	26-38
0.3	46	352	73.9	26.1	18-28
0.15	45	397	83.4	16.6	12-20
0.075	55	452	95.0	5.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 478

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.2	62.8	53-71
2.36	88	266	55.6	44.4	42-58
1.18	29	295	61.7	38.3	34-48
0.6	11	306	64.0	36.0	26-38
0.3	46	352	73.6	26.4	18-28
0.15	45	397	83.1	16.9	12-20
0.075	55	452	94.6	5.4	4-10

Note:-

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-12-07-33** **Date: 24-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-18
Sample ID No	:	2018-12-07-33/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	22-10-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.0	301.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.6	77.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.7	223.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	23.9	25.6
6	Aggregate impact value (Mean of two tests)	Pecentage	24.8	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2018-12-07-33** **Date: 24-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/89/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-18

Sample ID No : 2018-12-07-33/01

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 22-10-18

Result:

Index	Percentage of Flakiness and . Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	16.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.5%	
Combined Flakiness and Elongation Index for WMM	30.4%	

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 29-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-12-07-32/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	25-10-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 23-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-18
Sample ID No	:	2018-12-07-32/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	22-10-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**65**	60 to 70
2	Softening Point, °C	**51.4**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**272**	

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 08-09-18

Lab ID	:	**CP-2018-12-07-33**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-2 (Includes 7 Works) 1)Improvements to Roads and Drains 4th and 5th cross Jai Hanuman Layout in ward no 09 vidyaranyapura, 2)Improvements to Footpath aat 9th main 2nd Block H M T Layout in no vidyaranyapura.3)Improvements to roads and Drains 5th cross 2rd Block H M T Layout in ward no 09 vidyaranyapura,4)Improvements to roads and Drains 6th cross between 2nd and 3rd Block H M T Layout in waed no 09 Vidyaranyapura,5) Improvements to Ganesha Temple road Muniswamappa layout in ward no 09 vidaranyapura 6)Improvements to roads and Drains Form Hopcoms to Somanna Garden road of H M T L Layout in ward no 09 Vidyaranyapura, 7) Improvements to roads and drains at Saptagiri layout cross roads and Somanna Garden 3rd cross in ward no 09 Vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/89/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-33 /07
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-09-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	152	200	12160	31.546	2594.3	2591.0	Not less than 1800Kg/m^3
2	404	148	201	12018	31.473	2618.8		
3	400	154	199	12258	31.382	2560.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2018-12-07-33

Date: 08-09-18

Sample ID No : 2018-12-07-33 /07

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	151	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	149	201	
3	402	150	203	
4	401	152	201	
5	403	150	203	
6	401	149	200	
7	402	151	201	
8	403	149	203	
9	401	150	201	
10	402	150	203	
11	401	150	200	
12	402	152	199	
13	401	149	203	
14	403	150	201	
15	401	149	202	
16	402	151	201	
17	401	149	203	
18	402	150	201	
19	401	150	200	
20	400	151	201	
Average of 20	**402**	**150**	**201**	

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Lab ID : CP-2018-12-07-33

Date: 08-09-18

Sample ID No : 2018-12-07-33 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	151	60853	348.9	5.7	5.8
2	401	149	59749	353.7	5.9	
3	402	150	60300	349.4	5.8	
4	401	152	60952	353.6	5.8	
5	403	150	60450	346.7	5.7	
6	401	149	59749	351.5	5.9	
7	402	151	60702	349.7	5.8	
8	403	149	60047	347.1	5.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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